



AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): An ion adsorption module comprising
a container with an opening wherein at least one feed water flows into the opening
and

an organic porous ion exchange material comprising an organic porous cation
exchange material and an organic porous anion exchange material and having a three-
dimensional reticular structure comprised in the container,

wherein the ion exchange material has a continuous pore structure comprising
macropores and mesopores,

the macropores are interconnected with each other to form the mesopores having an
average diameter of 1-1,000 μm in the interconnected parts,

the ion exchange material has a total pore volume of 1-50 ml/g,

the ion exchange material comprises uniformly distributed ion exchange groups, and

the ion exchange material has an ion exchange capacity of 0.5 mg equivalent/g or
more of the porous material on a dry basis, and

wherein the module comprises a stratified bed wherein each bed comprises the
organic porous ion exchange material comprising the organic porous cation exchange
material and the organic porous anion exchange material.

Claim 2 (Previously Presented): The module according to claim 1, wherein the
container further comprises a feed water inflow pipe connected to the opening and a treated
water outflow pipe, wherein the feed water flows into the opening.

Claim 3 (Canceled):

Claim 4 (Currently Amended): An ion adsorption module comprising
a layer of at least one ion exchange resin particles and
a downstream layer of an organic porous ion exchange material comprising an organic porous cation exchange material and an organic porous anion exchange material and having a three-dimensional reticular structure,
wherein the ion exchange material has a continuous pore structure comprising macropores and mesopores,
the macropores are interconnected with each other to form the mesopores having an average diameter of 1-1,000 μm in the interconnected parts,
the ion exchange material has a total pore volume of 1-50 ml/g,
the ion exchange material comprises uniformly distributed ion exchange groups, and
the ion exchange material has an ion exchange capacity of 0.5 mg equivalent/g or more of the porous material on a dry basis, and
wherein the module comprises a stratified bed wherein each bed comprises the organic porous ion exchange material comprising the organic porous cation exchange material and the organic porous anion exchange material.

Claim 5 (Previously Presented): The module according to claim 2, wherein the module is disposed on the downstream side of another ion adsorption module which comprises at least one ion exchange resin particles.

Claim 6 (Currently Amended): A water treatment method comprising removing ionic substances from at least one feed water by adsorption by contacting the feed water with an

organic porous ion exchange material comprising an organic porous cation exchange material and an organic porous anion exchange material and having a three-dimensional reticular structure,

wherein the ion exchange material has a continuous pore structure comprising macropores and mesopores,

the macropores are interconnected with each other to form the mesopores having an average diameter of 1-1,000 μm in the interconnected parts,

the ion exchange material has a total pore volume of 1-50 ml/g,

the ion exchange material comprises uniformly distributed ion exchange groups, and

the ion exchange material has an ion exchange capacity of 0.5 mg equivalent/g or more of the porous material on a dry basis, and

wherein said organic porous material is comprised in an ion adsorption module and the module comprises a stratified bed wherein each bed comprises the organic porous ion exchange material comprising the organic porous cation exchange material and the organic porous anion exchange material.

Claim 7 (Previously Presented): The method according to claim 6, wherein the feed water has been treated prior to said removing ionic substances with at least one ion exchange resin particles.

Claim 8 (Previously Presented): The module according to claim 3, wherein the module is disposed on the downstream side of another ion adsorption module which comprises at least one ion exchange resin particles.